

AMENDMENT TO THE CLAIMS

Please rewrite the claims as follows:

Claims 1-12 (Canceled)

13. (New) An image sensing device comprising:
a plurality of pixels arranged to sense an object; and
a switch arranged to switch first correction data and second correction data
in accordance with a position of a pixel of interest among the plurality of pixels;
the first correction data being commonly used for correcting at least first and
second pixels of the plurality of pixels, the second correction data being used for
correcting a third pixel of the plurality of pixels.

14. (New) An image processing apparatus for processing an image sensed by
a plurality of pixels, the apparatus comprising:
a switch arranged to switch first correction data and second correction data
in accordance with a position of a pixel of interest among the plurality of pixels;
the first correction data being commonly used for correcting at least first and
second pixels of the plurality of pixels the second correction data being used for
correcting a third pixel of the plurality of pixels.

15. (New) An image processing method for processing an image sensed by a plurality of pixels the method comprising:

switching first correction data and second correction data in accordance with a position of a pixel at interest among the plurality of pixels; the first correction data being commonly used for correcting at least first and second pixels of the plurality of pixels, the second correction data being used for correcting a third pixel of the plurality of pixels.

16. (New) A memory medium storing an image processing program for processing an image sensed by a plurality of pixels, the program comprising:

switching for correction data and second correction data in accordance with a position of a pixel of interest among the plurality of pixels; the first correction data being commonly used for correcting at least first and second pixels of the plurality of pixels, the second correction data being used for correcting a third pixel of the plurality at pixels.

17. (New) An Image sensing device comprising;

an image sensing element having a two-dimensional matrix of pixels arranged in horizontal and vertical directions;

a memory arranged to store plural sets of horizontal linear correction data commonly used for correcting at least two of the matrix of pixels and/or plural sets of vertical linear correction data commonly used for correcting at least two of the matrix of pixels;

a selector arranged to select linear correction data from the plural sets of linear correction data stored in the memory in accordance with a position of a pixel of interest among the matrix of pixels; and
a calculator arranged to correct an image sensed by the image sensing element by using selected linear correction data.

18. (New) The device according to claim 17, wherein the image sensing element includes a color filter, and linear correction data to be selected by the selector are different from each other depending on whether a pixel of interest is in an odd line or in an even line.

19. (New) The device according to claim 17, wherein the selector is further arranged to select linear correction data from the plural sets of linear correction data in accordance with one of focal distance, field angle, and diaphragm of a photographing optical system or a combination thereof.

20. (New) An image processing apparatus for processing an image sensed by an image sensing element having a two-dimensional matrix of pixels arranged in horizontal and vertical directions, the apparatus comprising:

a memory arranged to store plural sets of horizontal linear correction data commonly used for correcting at least two of the matrix of pixels and/or plural sets of vertical linear correction data commonly used for correcting at least two of the matrix of pixels;

a selector arranged to select linear correction data from the plural sets of linear correcting data stored in the memory in accordance with a position of a pixel of interest among the matrix of pixels; and

a calculator arranged to correct an image sensed by the image sensing element by using selected linear correction data.

21. (New) An image processing method for processing an image sensed by an image sensing element having a two-dimensional matrix of pixels arranged In horizontal and vertical directions, the method comprising:

storing in a memory plural sets of horizontal linear correction data commonly used for correcting at least two of the matrix of pixels and/or plural sets of vertical linear correction data commonly used for correcting at least two of the matrix of pixels; and

correcting an image sensed by the image sensing element by using linear correction data selected from the plural sets of linear correction data stored in the memory.

22. (New) A memory medium storing an image processing program for processing an image sensed by an image sensing element having a two-dimensional matrix of pixels arranged in horizontal and vertical directions, the program comprising:

storing in a memory plural sets horizontal linear correction data commonly used for correcting at least two of the matrix of pixels and/or plural sets of vertical

linear correction data commonly used for correcting at least two of the matrix of pixels; and

correcting an image sensed by the image sensing element by using linear correction data selected from the plural sets of linear correction data stored in the memory.